



COMPOSITE MATS

DURA-BASE

DURA-BASE® mats are the premium heavy duty work platform for temporary work sites and temporary access roads. The DURA-BASE® brand is recognized worldwide and stands apart from other mats with its overlapping lip structure and patented interlocking connection system. Our state of the art manufacturing process produces a one piece sealed mat that is simply the best product on the market and widely recognized as the foundation for protecting the environment from direct vehicle traffic, cross-contamination and worksite spills.

Our engineers work with customers to understand their unique needs, and develop custom-engineered solutions for a variety of applications. These solutions include installation guidelines for particularly unstable ground conditions and even new products derived from DURA-BASE® or made to integrate effectively with DURA-BASE® mats. Feel free to contact our Engineering Team with technical questions about our mats and their possible application.

PRODUCT SPECIFICATIONS

**Weights and dimensions are all nominal.*

DURA-BASE® Large Mat

- ▶ Overall Dimensions: 8' x 14' x 4" (2.44m x 4.27m x 10.2cm)
- ▶ Surface Dimensions: 7' x 13' (2.13m x 3.96m)
- ▶ Weight: 1,000 lbs. (454 kg)

MATERIALS

The DURA-BASE® mat is a polymer product composed primarily of high density polyethylene (HDPE). The custom formulation includes a high-end polymer additives package that is compounded into the base HDPE polymer to provide UV protection, anti-oxidation and a long-lasting product color. A non-asbestos mineral additive is also included for enhanced durability and dimensional stability. A second polyethylene compound provides the anti-skid surface and contains an additive to prevent static charge accumulation. These grades of polyethylene are specifically chosen for their performance and environmental toughness.

LOGISTICS

40 mats per standard 18-wheeler = 3,640 sq. ft. per load.

STRENGTH

DURA-BASE® is a load spreading product and is designed to work in conjunction with the supporting sub grade. DURA-BASE® should not be deployed in a bridging situation without any supporting sub grade. Full scale laboratory testing has demonstrated mat tolerance to extreme deflection while maintaining high load bearing capacity in pure bending. Pure compressive load capacity is approximately 600 psi. Compressive loads in excess of 1,000 psi have been observed in laboratory tests.

TRAFFIC TESTING

The US Army Corps of Engineers have demonstrated the use of DURA-BASE® in soft soil conditions for military access roads. In these trials the mats sustained 2000 military vehicle passes in accelerated testing. Newpark trials of a matting access road traffic tests involving typical truck traffic at a pipeline storage site recorded over 28,000 axel passes in an eight month period. The mats that were part of this trial showed no surface or structural damage and performed well. In access road applications, Newpark routinely utilizes DURA-BASE® for unpermitted loads on sub grades with a CBR% of 2% and above.

